

FIGURE 1

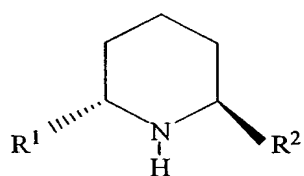
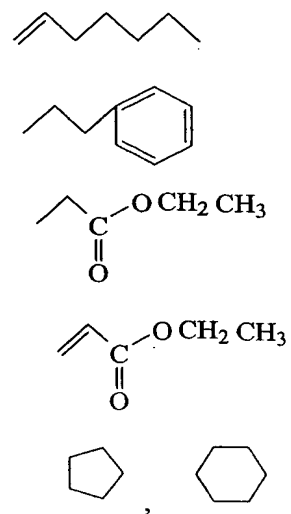
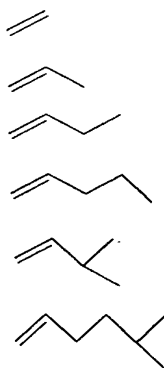
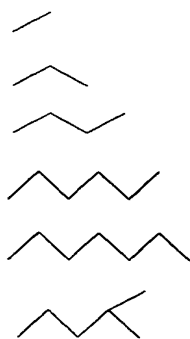
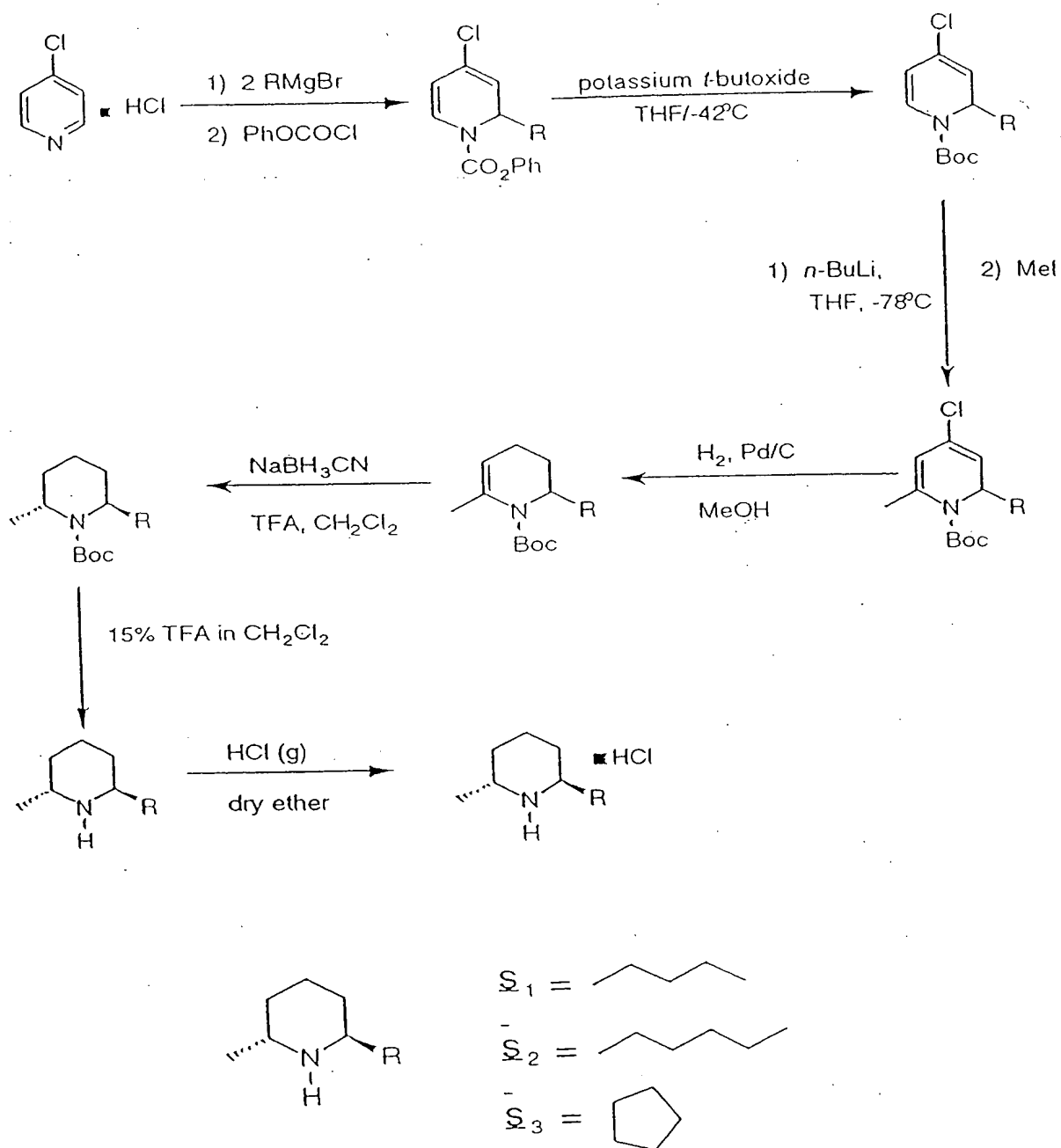
 R^1 or $R^2 =$ 

FIGURE 2
SCHEME I

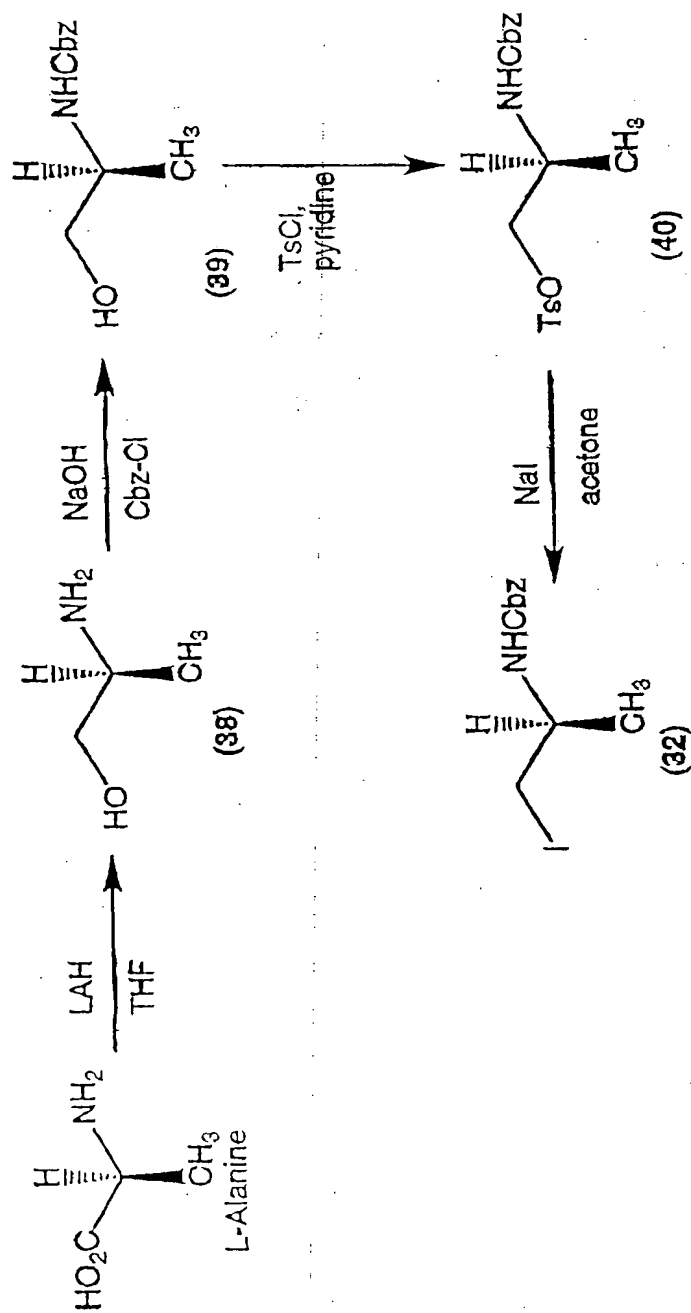


C1CCNCC1 $\xrightarrow[\text{THF, } 0^\circ\text{C}]{\text{Boc}_2\text{O}}$ C1CCN(C(=O)OC(C)(C)C)CC1 $\xrightarrow[2) \text{Me}_2\text{SO}_4]{1) \text{ } sec\text{-BuLi, } -78^\circ\text{C}}$ CC1CCN(C(=O)OC(C)(C)C)CC1 $\xrightarrow[2) \text{DMF}]{1) \text{ } sec\text{-BuLi, } -78^\circ\text{C}}$ CC1CCN(C(=O)OC(C)(C)C)C=O $\xrightarrow[-78^\circ\text{C}]{\text{RCH=P(Ph)}_3, \text{THF}}$ CC1CCN(C(=O)OC(C)(C)C)C=C\R $\xrightarrow{\text{TFA/CH}_2\text{Cl}_2}$ CC1CCNCC1C=C\R $\xrightarrow[\text{Pd/C}]{\text{H}_2}$ CC1CCN(C(=O)OC(C)(C)C)CCCR $\xrightarrow{\text{TFA/CH}_2\text{Cl}_2}$ CC1CCNCC1CCCR $\xrightarrow[\text{ether, HCl(g)}]{}$ CC1CCNCC1CCCR $\cdot \text{HCl}$

S. 4 CCCC S. 8 CC=CC S. 12 CC=CCCC S. 16 CC=CC(C)C
 S. 5 CCCCC S. 9 CC=CC(C)C S. 13 CC=CC(C)C S. 17 CCCC=CCCC
 S. 6 CCCCCCCC S. 10 CC=CCCC S. 14 CC(C)C=CC S. 18 CC(C)C=CC(=O)OCC
 S. 7 CCCC1=CC=CC=C1 S. 11 CC=CC S. 15 CC(C)(C)C=CC S. 19 CC(C)C=CC(=O)OCC

4/5

FIGURE 4



5/5

FIGURE 5

Solenopsin-A and Derivatives

